

ABSTRACT

A method for compressing data, for example, seismic data, audio data, or video data, comprising the steps of transforming data of a frame into a first
5 sequence of real numbers by using an entropy increasing transform method;
quantizing said first sequence of real numbers of said frame to obtain a first
sequence of integers; quantizing said first sequence of integers of said frame
using a predicted sequence of integers representing said first sequence of
integers to produce a second sequence of integers; and encoding said integers
10 of said second sequence of said frame into a stream of bits representing the
compressed sequence of integers of said frame. Furthermore, the method
comprises decompressing said compressed sequence by inverting the steps of
transforming, quantizing said first sequence of real numbers, quantizing said
first sequence of integers of said frame, and decoding in reverse order.

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(Fig. 1)